

CLAIMS

Having set forth the nature of the invention, what is claimed is:

- 1 1. A dietary supplement, the active components thereof comprising,
2 saw palmetto,
3 d-alpha tocopherol,
4 d-gamma tocopherol,
5 mixed tocopherols including d-beta tocopherol and d-delta tocopherol,
6 selenium,
7 lycopene,
8 zinc,
9 folic acid,
10 vitamin B₁₂, and
11 vitamin B₆.
- 1 2. The dietary supplement according to claim 1 wherein the saw palmetto
2 yields about 45% fatty acids and sterols.
- 1 3. The dietary supplement according to claim 1 wherein the saw palmetto
2 comprises from about 56% to about 76% by weight of the active components.
- 1 4. The dietary supplement according to claim 1 wherein the d-gamma
2 tocopherol comprises from about 1% to about 9% by weight of the active components.
- 1 5. The dietary supplement according to claim 1 wherein the d-alpha tocopherol
2 comprises from about 34% to about 51% by weight of the active components.

1 6. The dietary supplement according to claim 1 wherein the mixed tocopherols
2 comprise from about 1% to about 6% by weight of the active components.

1 7. The dietary supplement according to claim 1 wherein the vitamin B₁₂
2 comprises from about 0.03% to about 0.5% by weight of the active components.

1 8. The dietary supplement according to claim 1 wherein the vitamin B₆
2 comprises from about 1% to about 22% by weight of active components.

1 9. The dietary supplement according to claim 1 wherein the zinc is present in
2 an amount equal to about 1% to about 21% by weight of the active components.

1 10. The dietary supplement according to claim 1 wherein the selenium
2 comprises from about 0.01% to about 0.05% by weight of the active components.

1 11. The dietary supplement according to claim 1 wherein the lycopene
2 comprises from about 0.2% to about 1% by weight of the active components.

1 12. The dietary supplement according to claim 1 wherein the folic acid
2 comprises from about 0.1% to about 2.5% by weight of the active components.

1 13. The dietary supplement according to claim 1 wherein the active components
2 comprise from about 80 mg to about 400 mg of saw palmetto, from about 50 I.U. to about
3 250 I.U. of d-alpha tocopherol, from about 5 to about 80 mg of d-gamma tocopherol, from
4 about 9 mg to about 27 mg of mixed tocopherols, from about 0.1 mg to about 2 mg of
5 vitamin B₁₂, from about 5 mg to about 100 mg of vitamin B₆, from about 5 mg to about

6 100 mg of zinc, from about 0.4 mg to about 10 mg of folic acid, from about 50 mcg to
7 about 200 mcg of selenium and from about 1 mg to about 4 mg of lycopene.

1 14. The dietary supplement according to claim 1 wherein the active components
2 comprise approximately 320 mg of saw palmetto, approximately 150 I.U. of d-alpha
3 tocopherol as d-alpha tocopheryl succinate, approximately 25 mg of d-gamma tocopherol,
4 approximately 6.5 mg mixed tocopherols, approximately 100 mcg of selenium as selenium
5 chelate, approximately 2.5 mg lycopene complex, approximately 7.5 mg zinc as zinc
6 gluconate, approximately 1 mg folic acid, approximately 250 mcg vitamin B₁₂, and
7 approximately 12.5 mg vitamin B₆.

1 15. The dietary supplement according to claim 1 wherein the active components
2 comprise about 67% by weight of saw palmetto, about 21% by weight of d-alpha
3 tocopherol, about 5% by weight of d-gamma tocopherol, about 1% by weight of mixed
4 tocopherols, about 0.02% by weight of selenium, about 0.5% by weight of lycopene, about
5 1.6% by weight of zinc, about 0.2% by weight of folic acid, about 0.05% by weight of
6 vitamin B₁₂ and about 2.6% by weight of vitamin B₆.

1 16. A dietary supplement, the active components thereof comprising,
2 a first component selected from the group consisting of Echinacea, saw
3 palmetto, stinging nettle, pumpkin seed, Pygeum africanum and combinations thereof,
4 a vitamin E component,
5 a selenium component,
6 a lycopene component,

7 a zinc component, and
8 a vitamin B component.

1 17. The dietary supplement according to claim 16 wherein the active
2 components comprise from about 80 mg to about 400 mg of the first component, from
3 about 64 mg to about 357 mg of the vitamin E component, from about 5.5 mg to about 112
4 mg of the vitamin B component, from about 5 mg to about 100 mg of the zinc component,
5 from about 50 mcg to about 200 mcg of the selenium component and from about 1 mg to
6 about 4 mg of the lycopene component.

1 18. The dietary supplement according to claim 16 wherein the active
2 components comprise about 67% by weight of the first component, about 28% by weight
3 of the vitamin E component, about 0.02% by weight of the selenium component, about
4 0.5% by weight of the lycopene component, about 1.5% by weight of the zinc component,
5 about 3% by weight of the vitamin B component.

1 19. A method for treating or preventing prostate disease or alleviating
2 symptoms associated with enlargement of the prostate gland comprising administering a
3 therapeutically effective amount of the dietary supplement according to claim 17.

1 20. A method for treating or preventing vascular disease or symptoms of
2 vascular disease comprising administering a therapeutically effective amount of the dietary
3 supplement according to claim 17.

1 21. A method for treating or preventing vascular disease and prostate disease
2 comprising administering a therapeutically effective amount of the dietary supplement
3 according to claim 18.

1 22. The dietary supplement according to claim 17 wherein the vitamin E
2 component includes d-alpha tocopherol, d-gamma tocopherol, d-beta tocopherol and d-
3 delta tocopherol.

1 23. The dietary supplement according to claim 18 wherein the vitamin E
2 component includes d-alpha tocopherol, d-gamma tocopherol, d-beta tocopherol and d-
3 delta tocopherol.

1 24. The dietary supplement according to claim 16 wherein the vitamin B
2 component includes folic acid, vitamin B₆ and vitamin B₁₂.

1 25. The dietary supplement according to claim 17 wherein the vitamin B
2 component includes folic acid, vitamin B₆ and vitamin B₁₂.

1 26. The dietary supplement according to claim 18 wherein the vitamin B
2 component includes folic acid, vitamin B₆ and vitamin B₁₂.

1 27. The dietary supplement according to claim 16 wherein the first component
2 is saw palmetto, the vitamin E component includes d-alpha tocopherol, d-gamma
3 tocopherol, d-beta tocopherol and d-delta tocopherol and the vitamin B component
4 includes folic acid, vitamin B₆ and vitamin B₁₂.

1 28. The dietary supplement according to claim 17 wherein the first component
2 is saw palmetto, the vitamin E component includes d-alpha tocopherol, d-gamma
3 tocopherol, d-beta tocopherol and d-delta tocopherol and the vitamin B component
4 includes folic acid, vitamin B₆ and vitamin B₁₂.

1 29. The dietary supplement according to claim 18 wherein the first component
2 is saw palmetto, the vitamin E component includes d-alpha tocopherol, d-gamma
3 tocopherol, d-beta tocopherol and d-delta tocopherol and the vitamin B component
4 includes folic acid, vitamin B₆ and vitamin B₁₂.

1 30. A dietary supplement, the active components thereof consisting essentially
2 of,

3 a first component selected from the group consisting of Echinacea, saw
4 palmetto, stinging nettle, pumpkin seed, Pygeum africanum and combinations thereof,

5 a vitamin E component, and

6 a vitamin B component.

1 31. The dietary supplement according to claim 30 wherein the active
2 components further consist essentially of a selenium component.

1 32. The dietary supplement according to claim 31 wherein the active
2 components further consist essentially of a lycopene component.

1 33. The dietary supplement according to claim 32 wherein the active
2 components further consist essentially of a zinc component.

1 34. The dietary supplement according to claim 30 wherein the first component
2 is saw palmetto.

1 35. The dietary supplement according to claim 33 wherein the vitamin E
2 component comprises d-gamma tocopherol.

1 36. The dietary supplement according to claim 33 wherein the vitamin E
2 component comprises d-alpha tocopherol.

1 37. The dietary supplement according to claim 33 wherein the vitamin E
2 component comprises d-beta tocopherol and d-delta tocopherol.

1 38. The dietary supplement according to claim 33 wherein the vitamin B
2 component comprises of vitamin B₁₂.

1 39. The dietary supplement according to claim 33 wherein the vitamin B
2 component comprises vitamin B₆.

1 40. The dietary supplement according to claim 33 wherein the vitamin B
2 component comprises folic acid.

1 41. The dietary supplement according to claim 30 wherein the first component
2 comprises from about 56% to about 76% by weight of the active components.

1 42. The dietary supplement according to claim 35 wherein the d-gamma
2 tocopherol comprises from about 1% to about 9% by weight of the active components.

1 43. The dietary supplement according to claim 36 wherein the d-alpha
2 tocopherol comprises from about 34% to about 51% by weight of the active components.

1 44. The dietary supplement according to claim 37 wherein the d-beta tocopherol
2 and d-delta tocopherol comprise from about 1% to about 6% by weight of the active
3 components.

1 45. The dietary supplement according to claim 38 wherein the vitamin B₁₂
2 comprises from about 0.03% to about 0.5% by weight of the active components.

1 46. The dietary supplement according to claim 39 wherein the vitamin B₆
2 comprises from about 1% to about 22% by weight of active components.

1 47. The dietary supplement according to claim 33 wherein the zinc component
2 comprises from about 1% to about 21% by weight of the active components.

1 48. The dietary supplement according to claim 33 wherein the selenium
2 comprises from about 0.01% to about 0.05% by weight of the active components.

1 49. The dietary supplement according to claim 33 wherein the lycopene
2 component comprises from about 0.2% to about 1% by weight of the active components.

1 50. The dietary supplement according to claim 40 wherein the folic acid
2 comprises from about 0.1% to about 2.5% by weight of the active components.

1 51. The dietary supplement according to claim 33 wherein the first component
2 includes from about 80 mg to about 400 mg of saw palmetto; the vitamin E component

3 includes from about 50 I.U. to about 250 I.U. of d-alpha tocopherol, from about 5 to about
4 80 mg of d-gamma tocopherol and from about 9 mg to about 27 mg of a combination of d-
5 delta tocopherol and d-beta tocopherol; the vitamin B component includes from about 0.4
6 mg to about 10 mg of folic acid, from about 0.1 mg to about 2 mg of vitamin B₁₂ and from
7 about 5 mg to about 100 mg of vitamin B₆; the zinc component includes from about 5 mg
8 to about 100 mg of zinc; the selenium component includes from about 50 mcg to about 200
9 mcg of selenium; and the lycopene component includes from about 1 mg to about 4 mg of
10 lycopene.

1 52. The dietary supplement according to claim 33 wherein the first component
2 includes approximately 320 mg of a saw palmetto; the vitamin E component includes
3 approximately 150 I.U. of d-alpha tocopheryl succinate, approximately 25 mg of d-gamma
4 tocopherol and approximately 6.5 mg mixed of tocopherols including d-delta tocopherol
5 and d-beta tocopherol; the vitamin B component includes approximately 1 mg of folic acid,
6 approximately 250 mcg of vitamin B₁₂ and approximately 12.5 mg of vitamin B₆; the zinc
7 component includes approximately 7.5 mg of zinc gluconate; the selenium component
8 includes approximately 100 mcg of selenium chelate; and the lycopene component includes
9 approximately 2.5 mg of lycopene complex.

10 53. The dietary supplement according to claim 51 wherein the saw palmetto
11 yields about 45 % fatty acids and sterols.

1 54. The dietary supplement according to claim 33 wherein the active
2 components consist essentially of about 67% by weight of the first component, about 28%

3 by weight of the vitamin E component, less than about 1% by weight of the selenium
4 component, less than about 1% by weight of the lycopene component, about 1.6% by
5 weight of the zinc component, and about 3% by weight of the vitamin B component.

1 55. A dietary supplement, the active components thereof consisting of,
2 d-alpha tocopherol,
3 d-gamma tocopherol,
4 mixed tocopherols including d-beta tocopherol, d-delta tocopherol or both,
5 selenium,
6 lycopene,
7 zinc,
8 folic acid,
9 vitamin B₁₂, and
10 vitamin B₆.

1 56. The dietary supplement according to claim 55 further consisting of a first
2 component selected from the group consisting of saw palmetto, Echinacea, stinging nettle,
3 pumpkin seed, Pygeum africanum and combinations thereof,

1 57. The dietary supplement according to claim 56 wherein the first component
2 is saw palmetto.

1 58. The dietary supplement according to claim 57 wherein the active
2 components consist of from about 80 mg to about 400 mg of saw palmetto, from about 50
3 I.U. to about 250 I.U. of d-alpha tocopherol, from about 5 to about 80 mg of d-gamma

4 tocopherol, from about 9 mg to about 27 mg of mixed tocopherols, from about 0.1 mg to
5 about 2 mg of vitamin B₁₂, from about 5 mg to about 100 mg of vitamin B₆, from about 5
6 mg to about 100 mg of zinc, from about 0.4 mg to about 10 mg of folic acid, from about 50
7 mcg to about 200 mcg of selenium and from about 1 mg to about 4 mg of lycopene.

1 59. The dietary supplement according to claim 57 wherein the active
2 components consist of approximately 320 mg of saw palmetto, approximately 150 I.U. of
3 d-alpha tocopherol as d-alpha tocopheryl succinate, approximately 25 mg of d-gamma
4 tocopherol, approximately 6.5 mg mixed tocopherols, approximately 100 mcg of selenium
5 as selenium chelate, approximately 2.5 mg lycopene complex, approximately 7.5 mg zinc
6 as zinc gluconate, approximately 1 mg folic acid, approximately 250 mcg vitamin B₁₂, and
7 approximately 12.5 mg vitamin B₆.

1 60. The dietary supplement according to claim 57 wherein the active
2 components consist of about 67% by weight of saw palmetto, about 21% by weight of d-
3 alpha tocopherol, about 5% by weight of d-gamma tocopherol, about 1% by weight of
4 mixed tocopherols, about 0.02% by weight of selenium, about 0.5% by weight of lycopene,
5 about 1.6% by weight of zinc, about 0.2% by weight of folic acid, about 0.05% by weight
6 of vitamin B₁₂ and about 2.6% by weight of vitamin B₆.

1 61. The dietary supplement according to claim 60 wherein the saw palmetto
2 yields about 45% fatty acids and sterols

1 62. The dietary supplement according to claim 55 wherein the active
2 components consist of approximately 300 I.U. of d-alpha tocopherol, approximately 50 mg

3 of d-gamma tocopherol, approximately 13 mg mixed tocopherols, approximately 200 mcg
4 selenium, approximately 5 mg lycopene, approximately 15 mg zinc, approximately 2 mg
5 folic acid, approximately 500 mcg vitamin B₁₂ and approximately 25 mg vitamin B₆.

1 63. The dietary supplement according to claim 55 wherein active components
2 consist of about 63% by weight of d-alpha tocopherol, about 16% by weight of d-gamma
3 tocopherol, about 4% by weight of mixed tocopherols, about 0.06% by weight of selenium,
4 about 2% by weight of lycopene, about 5% by weight of zinc, about 0.7% by weight of
5 folic acid, about 0.2% by weight of vitamin B₁₂ and about 8% by weight of vitamin B₆.

1 64. A method for treating or preventing prostate disease or alleviating
2 symptoms associated with enlargement of the prostate gland comprising administering a
3 therapeutically effective amount of the dietary supplement according to claim 59.

1 65. A method for treating or preventing vascular disease or symptoms of
2 vascular disease comprising administering a therapeutically effective amount of the dietary
3 supplement according to claim 59.

1 66. A method for treating or preventing vascular disease and prostate disease
2 comprising administering a therapeutically effective amount of the dietary supplement
3 according to claim 58.